

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/11791A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ G11B17/028, G11B17/04, G11B21/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ G11B17/022-17/035, G11B17/04, G11B21/02Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2003
Kokai Jitsuyo Shinan Koho 1971-2003 Toroku Jitsuyo Shinan Koho 1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 4-111266 A (Sanyo Electric Co., Ltd.), 13 April, 1992 (13.04.92), Full text; Figs. 1 to 43 (Family: none)	1,2 3-13
A	JP 2002-93013 A (Matsushita Electric Industrial Co., Ltd.), 29 March, 2002 (29.03.02), Full text; Figs. 1 to 53 & WO 02/23546 A1	1-13
A	JP 2002-298548 A (Mitsubishi Electric Corp.), 11 October, 2002 (11.10.02), Full text; Figs. 1 to 8 (Family: none)	1-13

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
 "A" document defining the general state of the art which is not considered to be of particular relevance
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 "O" document referring to an oral disclosure, use, exhibition or other means
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 "&" document member of the same patent family

Date of the actual completion of the international search
09 October, 2003 (09.10.03)Date of mailing of the international search report
28 October, 2003 (28.10.03)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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